

CLAIMS

What is claimed is:

1. A folding riding vehicle comprising:
 - a. a front frame element having a front wheel rotatably mounted thereto;
 - 10 b. a front bracket attached to the front frame element;
 - c. a seat bracket having a seat mounted thereon, said seat bracket pivotally mounted to the front bracket;
 - d. a rear frame element having at least one rear wheel rotatably mounted thereto;
 - e. a rear bracket attached to the rear frame element and pivotally attached to the
 - 15 front bracket, and
 - f. a pin joining the seat bracket and the rear bracket so that the seat bracket pivots relative to the front bracket as the rear bracket is pivoted relative to the front bracket as the riding vehicle is moved between folded and unfolded configurations.

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2. The folding riding vehicle of claim 1 wherein the pin is mounted to the rear bracket and the seat bracket has a slot therein which receives the pin so that the pin travels through the slot as the riding vehicle is moved between the folded and unfolded configurations.

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3. The folding riding vehicle of claim 2 wherein the front bracket has a slot therein which also receives the pin and through which the pin travels as the riding vehicle is moved between the folded and unfolded configurations.

5 4. The folding riding vehicle of claim 3 wherein the slot of the front bracket is an arcuate slot.

 5. The folding riding vehicle of claim 1 wherein the folding riding vehicle is a tricycle.

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 6. The folding riding vehicle of claim 1 wherein the front bracket has a slot therein which receives the pin and through which the pin travels as the riding vehicle is moved between the folded and unfolded configurations.

15 7. The folding riding vehicle of claim 1 further comprising a tension spring attached between the seat bracket and the front bracket.

 8. The folding riding vehicle of claim 1 further comprising a safety cam mounted to the rear bracket, said safety cam preventing the entry of a hand, fingers or the like between the
20 front bracket and the rear bracket.

 9. The folding riding vehicle of claim 8 wherein said safety cam includes a plurality of indentations and further comprising a plunger mechanism mounted to the front bracket, said plunger mechanism including a plunger that engages the indentations of the cam when the riding
25 vehicle is in the folded and unfolded configurations.

5 10. The folding riding vehicle of claim 1 further comprising a knob attached to the rear frame element and a latching member pivotally attached to the seat bracket, said latching member including a claw that removably engages the knob when the riding vehicle is in the unfolded configuration.

10 11. The folding riding vehicle of claim 10 further comprising a spring connected between the latching member and the seat bracket and urging the claw into engagement with the knob when the riding vehicle is in the unfolded configuration.

12. A folding riding vehicle comprising:

- 15 a. a front frame element having a front wheel rotatably mounted thereto;
- b. a front bracket attached to the front frame element;
- c. a seat bracket having a seat mounted thereon, said seat bracket pivotally mounted to the front bracket and having a slot formed therein;
- d. a rear frame element having at least one rear wheel rotatably mounted thereto;
- 20 e. a rear bracket attached to the rear frame element and pivotally attached to the front bracket, said rear bracket having a pin extending therefrom and engaging the slot in the seat bracket; and
- f. said rear bracket and seat bracket pivoting relative to the front bracket, and the pin sliding in the slot, as the folding riding vehicle is moved between folded and
- 25 unfolded configurations.

5 13. The folding riding vehicle of claim 12 wherein the front bracket has a slot therein
which also receives the pin and through which the pin travels as the riding vehicle is moved
between the folded and unfolded configurations.

10 14. The folding riding vehicle of claim 13 wherein the slot of the front bracket is an
arcuate slot.

15 15. The folding riding vehicle of claim 12 wherein the folding riding vehicle is a
tricycle.

15 16. The folding riding vehicle of claim 12 further comprising a tension spring
attached between the seat bracket and the front bracket.

20 17. The folding riding vehicle of claim 12 further comprising a safety cam mounted
to the rear bracket, said safety cam preventing the entry of a hand, fingers or the like between the
front bracket and the rear bracket.

25 18. The folding riding vehicle of claim 17 wherein said safety cam includes a
plurality of indentations and further comprising a plunger mechanism mounted to the front
bracket, said plunger mechanism including a plunger that engages the indentations of the cam
when the riding vehicle is in the folded and unfolded configurations.

5 19. The riding vehicle of claim 12 further comprising a knob attached to the rear
frame element and a latching member pivotally attached to the seat bracket, said latching
member including a claw that removably engages the knob when the riding vehicle is in the
unfolded configuration.

10 20. The riding vehicle of claim 19 further comprising a spring connected between the
latching member and the seat bracket and urging the claw into engagement with the knob when
the folding riding vehicle is in the unfolded configuration.